

Message

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**From:** Burdett, Cheryl [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E8F84378969242DBA5EB260C1CC89FB8-CBURDETT]  
**Sent:** 4/19/2018 6:25:04 PM  
**To:** Thompson, Robert A. [Thompson.Robert@epa.gov]  
**Subject:** RE: QA/QC frequencies

Hi Rob:

I actually meant 220 because I will be doing a split sample for nitrates, so one sample will go to CRL to analyze for nitrates. I will provide the results to the contract laboratory, who will be analyzing for N15 isotope.

Cheryl Burdett

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**From:** Thompson, Robert A.  
**Sent:** Thursday, April 19, 2018 12:35 PM  
**To:** Burdett, Cheryl <burdett.cheryl@epa.gov>  
**Subject:** RE: QA/QC frequencies

Do you mean only 110 250mL polys for your contract lab? CRL doesn't need a 250mL container.



Robert Thompson  
Chemist | Sample Coordinator  
U.S.EPA R5 Chicago Regional Laboratory  
536 S. Clark St. ML-10C | Chicago, IL 60605  
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**From:** Burdett, Cheryl  
**Sent:** Thursday, April 19, 2018 12:24 PM  
**To:** Thompson, Robert A. <[Thompson.Robert@epa.gov](mailto:Thompson.Robert@epa.gov)>  
**Subject:** RE: QA/QC frequencies

Great. Yes, I would like you to add it. So yes if you could send Rob Snyder a bottle list. I also need approximately 82 locations for groundwater and add 10 locations for private wells, but that will be sent to another lab.

With Blanks etc. I coming up with 90 1 L bottles

180 500 mL bottles

180 250 mL bottles ( 1 to you guys and 1 to the contract laboratory for the isotope as a split sample)

Plus I will need to collect from private well, but will be sent to another Lab so looking at 10 1L, 20 500 mL 20 250 mL bottles

Total of 110 1 L bottles (a little extra just in case)

Total of 220 500 mL bottles ( a little extra just in case)

Total of 220 250 mL bottles ( a little extra just in case)

16 coolers

15 gallons of DI water

pH strips

Nitric Acid for preservation

Anything else you think that I am missing?

Cheryl Burdett

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**From:** Thompson, Robert A.

**Sent:** Thursday, April 19, 2018 12:12 PM

**To:** Burdett, Cheryl <[burdett.cheryl@epa.gov](mailto:burdett.cheryl@epa.gov)>

**Subject:** RE: QA/QC frequencies

If nitrate is needed now we could do it for Monday-Thursday sampling if shipped daily. You would add it to the 1L poly unpreserved.

1L poly unpreserved (TDS, chloride, nitrate as NO<sub>3</sub>)

500mL H<sub>2</sub>SO<sub>4</sub> (nitrate-nitrite-N, TP, TKN, TOC, ammonia)

500mL HNO<sub>3</sub> (metals)



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**From:** Burdett, Cheryl

**Sent:** Thursday, April 19, 2018 12:08 PM

**To:** Thompson, Robert A. <[Thompson.Robert@epa.gov](mailto:Thompson.Robert@epa.gov)>

**Subject:** RE: QA/QC frequencies

Hi Rob- what about TOCs do I need another 500 mL Poly for that as well? Also could you do just Nitrate (250 mL poly) with the holding time of 48 hours for Monday – Thursday?

Cheryl Burdett

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**From:** Thompson, Robert A.

**Sent:** Thursday, April 19, 2018 12:05 PM

**To:** Burdett, Cheryl <[burdett.cheryl@epa.gov](mailto:burdett.cheryl@epa.gov)>

**Subject:** RE: QA/QC frequencies

BTW, you will only need 3 bottles per sampling location (one 1L poly unpreserved, one 500mL poly H2SO4, one 500mL poly Nitric). I can put together a bottle order for you if needed. We will need to know if you need preservatives (sulfuric and nitric).

1L poly unpreserved (TDS, chloride)  
500mL H2SO4 (nitrate-nitrite-N, TP, TKN, TOC, ammonia)  
500mL HNO3 (metals)

cBOD, BOD, TDP, nitrate request has been canceled.



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**From:** Thompson, Robert A.  
**Sent:** Thursday, April 19, 2018 11:56 AM  
**To:** Burdett, Cheryl <[burdett.cheryl@epa.gov](mailto:burdett.cheryl@epa.gov)>  
**Subject:** RE: QA/QC frequencies

Correct. MS/MSD do not require an addition sample. They only require additional volumes for a specific sample for select methods (organics). The volume submitted for metals and general chemistry is enough to pull from for MS/MSD analysis. You just need to tell us which sample to use (identified on the COC), otherwise we choose one ourselves since it is a needed laboratory QA/QC check.



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**From:** Burdett, Cheryl  
**Sent:** Thursday, April 19, 2018 11:51 AM  
**To:** Thompson, Robert A. <[Thompson.Robert@epa.gov](mailto:Thompson.Robert@epa.gov)>  
**Subject:** RE: QA/QC frequencies

Ok. So that is not a separate sample?

Cheryl Burdett

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**From:** Thompson, Robert A.  
**Sent:** Thursday, April 19, 2018 11:36 AM  
**To:** Burdett, Cheryl <[burdett.cheryl@epa.gov](mailto:burdett.cheryl@epa.gov)>  
**Subject:** RE: QA/QC frequencies

Every analysis typically has a matrix spike. Organics is the one that requires excess volume for it. Since you are not doing organics, you just need to write on the COC which sample location you want the lab to run MS/MSD on. 1 per 20.



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**From:** Burdett, Cheryl  
**Sent:** Thursday, April 19, 2018 11:33 AM  
**To:** Thompson, Robert A. <[Thompson.Robert@epa.gov](mailto:Thompson.Robert@epa.gov)>  
**Subject:** RE: QA/QC frequencies

Do I have to do matrix spike I thought that was for VOCs only?

Cheryl Burdett

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**From:** Thompson, Robert A.  
**Sent:** Thursday, April 19, 2018 11:18 AM  
**To:** Burdett, Cheryl <[burdett.cheryl@epa.gov](mailto:burdett.cheryl@epa.gov)>  
**Subject:** QA/QC frequencies

Hi Cheryl,

Amanda said that you called about QA/QC frequencies. The precise composition and frequency of field QC samples is dependent on the objectives for the sampling event and existing regional guidelines. Although, I do not think we have regional guidelines. As a former sampler I followed guidance

[https://www.epa.gov/sites/production/files/documents/qaqc\\_v1\\_0305.pdf](https://www.epa.gov/sites/production/files/documents/qaqc_v1_0305.pdf) in Table A-1, A-2, A-3.

This QAPP manual recommends:

- 1/10 for **field duplicates**
- 1 per day for type of sampling equipment for **equipment blanks/rinsates** (although, I have seen this dropped to one per week). Collected in between a sampling location to test decontamination procedures.
- 1 per cooler for **trip blanks** (needed for VOA only).
- 1/20 per matrix for **matrix spike/matrix spike duplicate**

Additional Region 3 guidance on field blanks:

<https://www.epa.gov/sites/production/files/2015-06/documents/blanks.pdf>

I definitely recommend talking to your QA rep (Dean?).



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